

10/573589

Docket No. 284261US2PCT

1AP2006 PCT/PTO 27 MAR 2006

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: Kazuyuki TAKADA, et al.
SERIAL NO: New U.S. PCT Application Based on PCT/JP04/04543 GAU:
FILED: Herewith EXAMINER:
FOR: RECTENNA SOLAR CELL HYBRID PANEL AND HYBRID PHOTOVOLTAIC POWER GENERATION SYSTEM

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97

COMMISSIONER FOR PATENTS
ALEXANDRIA, VIRGINIA 22313

SIR:

Applicant(s) wish to disclose the following information.

REFERENCES

- ☒ The applicant(s) wish to make of record the references listed on the attached form PTO-1449. Copies of the listed references are attached, where required, as are either statements of relevancy or any readily available English translations of pertinent portions of any non-English language references.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

RELATED CASES

- ☒ Attached is a list of applicant's pending application(s), published application(s) or issued patent(s) which may be related to the present application. In accordance with the waiver of 37 CFR 1.98 dated September 21, 2004, copies of the cited pending applications are not provided. Cited published and/or issued patents, if any, are listed on the attached PTO form 1449.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

CERTIFICATION

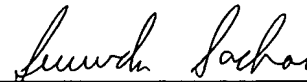
- ☐ Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- ☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

DEPOSIT ACCOUNT

- ☒ Please charge any additional fees for the papers being filed herewith and for which no check or credit card payment is enclosed herewith, or credit any overpayment to deposit account number 15-0030. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

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Form PTO 1449
(Modified)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY DOCKET NO.

284261US2PCT

SERIAL NO.

New US PCT Application
Based on PCT/JP 02/04543

LIST OF REFERENCES CITED BY APPLICANT

APPLICANT

Kazuyuki TAKADA, et al.

FILING DATE

Herewith

GROUP

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						
	AL						
	AM						
	AN						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	AO	10-270925	10/09/98	JP (with English abstract)		NO
	AP	4-112635	04/14/92	JP (with English abstract)		NO
	AQ	2000-278887	10/06/00	JP (with English abstract)		NO
	AR	52-066300	06/01/77	JP		NO
	AS	2003-164076	06/06/03	JP (with English abstract)		NO
	AT	2000-199314	07/18/00	JP (with English abstract)		NO
	AU	2001-320218	11/16/01	JP		NO
	AV	6-327173	11/25/94	JP		NO
	AW	6-196856	07/15/94	JP		NO
	AX	2003-309938	10/31/03	JP (with English abstract & equivalent of US2003/0192586)		NO

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)

	AY		
	AZ		<input type="checkbox"/> Additional References sheet(s) attached

Examiner

Date Considered

*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

10/573589

AP20 Rec'd PCT/PTO 27 MAR 2006

New U.S. PCT Application Based on PCT/JP04/04543

Kazuyuki TAKADA, et al.

Docket No. 284261 US

STATEMENT OF RELEVANCY

- 1) References AO - AW have been cited in the International Search Report. A copy of these references is being submitted herewith.
- 2) References have been cited in the corresponding Search Report. A copy of these references is being submitted herewith.
- 3) Reference AX is discussed in the specification. A copy of this reference is being submitted herewith.
- 4) References are additional prior art known to Applicant. A copy of these references is being submitted herewith.

AA: US2003-0192586 (A1)

SPACE PHOTOVOLTAIC POWER GENERATION SYSTEM, PORTABLE SMALL POWER ELECTRONIC MACHINE, RECEPTION ANTENNA APPARATUS, AND ELECTRIC POWER SYSTEM.

Microwave power from a power generation satellite placed in space is radiated to a power base or a power-consumption area on the earth, so as to obtain power by receiving the microwave power using a receiving antenna.

AX: JP2003-309938 (A)

COSMIC SOLAR POWER GENERATION SYSTEM, PORTABLE SMALL POWER ELECTRONIC APPARATUS, RECEIVED ANTENNA APPARATUS, AND POWER SYSTEM.

Microwave power from a power generation satellite placed in space is radiated to a power base or a power-consumption area on the earth, so as to obtain power by receiving the microwave power using a receiving antenna.

AO: JP1998-270925 (A)

ANTENNA LOADING SOLAR BATTERY

A solar battery is loaded on a fixing board, a conductive film is provided over the solar battery, an antenna-array element is provided over the film, and protection glass is provided over the element.

AP: 1992-112635 (A)

PLANAR RECTENNER

Configurations are disclosed, in which both an antenna element and a rectifying circuit are formed on the same face of a substrate (referred to Fig. 2), and a rectifying circuit is arranged under an antenna array (referred to Fig. 3).

AQ: JP2000-278887 (A)

RECTENNA DEVICE

A circuit pattern in which rectenna-device elements are formed on the same face of a substrate is disclosed (referred to Fig. 3), and a configuration in which a receiving antenna is formed on a face of a substrate, while a rectifying circuit is formed on the other face of the substrate is disclosed (referred to Fig. 5).

AR: JP1977-66300

ENERGY SUPPLY METHOD TO SPACECRAFT

A configuration is disclosed, in which, by sending electric power waves from an energy supplying apparatus 1 such as an electromagnetic-wave generator built on the earth towards a spacecraft 2 having an apparatus for transforming the electromagnetic waves into electric power energy, the energy is supplied to the spacecraft 2, or a communication signal is sent (referred to Fig. 1)

AP2003-0192586 PCT/PTO 27 MAR 2006

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Serial No.: NEW
APPLICATION

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Inventor: Kazuyuki TAKADA, et al.

LIST OF RELATED CASES CITED BY
APPLICANT UNDER 37 CFR 1.56

Filing Date: HEREWITH

Group:

LIST OF RELATED CASES

<u>Examiner Initial</u>	<u>Docket No.</u>	<u>Serial or Patent Number</u>	<u>Filing or Issue Date</u>	<u>Patent App. Publication No.</u>	<u>Inventor or Applicant</u>
	229472US2	10/271,527	10/17/02	2003-0192586	TAKADA, et al.

Examiner

Date Considered

*Present Application; listed for information

GJM/sch

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